

ZMK20R10SQM Series Hall Current Sensor

Performance parameter

Hall current sensor uses Hall effect principle to measure DC, AC, pulse and various irregular waveform currents under



Feature

• Hall effect measurement principle

the condition that the original and secondary sides are completely isolated.

● Meet UL94-V0 standard

Advantage

- Easy to install
- Low power consumption
- Wide measuring range
- High precision and good linearity
- Low temperature drift
- Strong anti-interference ability
- Strong overload capability

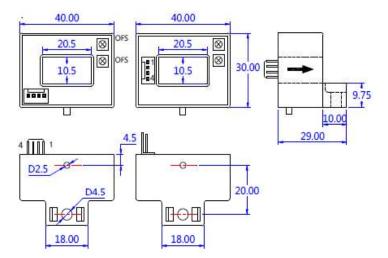
Application

- AC frequency conversion speed control device
- DC motor driven static converter
- ●UPS uninterruptible power supply
- SMPS Switched Mode Power Supplies
- Flectric welder machine
- Grid monitoring
- Industrial grade

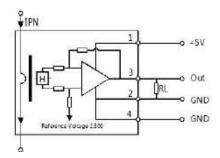
Electrical parameters							
Rated current rms	lpn	50A	100A	200A	300A	400A	600
Measuring range	lpm	100A	200A	400A	600A	800A	900
Rated output @Ip	Vo	2.5±(1*lp/lpn)V					
@Ip=0		2.5V					
Load Resistance	RL	>2ΚΩ					
Supply Voltage	Uc	+5V					
Current consumption	Ic	≤15mA					
Insulation voltage	Vd	2.5kVAC/50Hz/1min					
Dynamic parameter							
Precision(@Ipn,Ta=25°C)	XG	<±1.0%					
Linearity(@Ta=25°C)	Er	<±1.0%FS					
Zero offset voltage (@Ta=25°C,Ip=0)	Voe	<±25mV					
Magnetic offset voltage(Ipn->0)	Voн	<±20mV					
Zero temperature drift	TCVOE	<±1.0mV/°C					
Response time	Tr	<3us					
Accurately followed	di/dt	>100A/us					
Frequency bandwidth (@-3dB)	BW	DC~20kHz					
General parameters							
Ambient operating temperature	Та	-40∼+85°C					
Ambient storage temperature	Ts	-55∼+125˚C					
Weight	m	70g					
Case material		PBT G30/G15 UL94-V0					
Executive standard		!	EN50178:1998				
		į	IEC60950-1:2001				
			SJ20790-2000				

structure

Unit: mm



Instructions



- 1. The direction of the current should be the same as the direction of the arrow of the casing;
- 2. Please refer to the wiring definition on the physical shell, the wrong wiring willDamaged module;
- 3. In order to obtain better dynamic characteristics and sensitivity, it is recommended to use a single turn wire and the wire fills the module through the wire hole best;
- 4. The primary side wire temperature should not exceed 100 °C;
- 5_{ν} The above parameters are standard specifications, and the products can be customized according to customer needs.